## MATH 142 (Section 501) – Calculus II

Instructor	Professor Doug Office Hours: Office: Phone: E-mail:	Meade MW 10:00-11:00, and by <i>prior</i> appointment LeConte College 300E 777-6183 meade@math.sc.edu	
WWW URL	http://www.math.sc.edu/~meade/math142-F03/		
Meeting Times	MW 11:15AM-12:05PM, LC 401 TTh 11:00AM-11:50AM, LC 401		
Text	Varberg, Purcell, and Rigdon, <i>Calculus with Analytic Geometry</i> , Eighth Edition, Prentice–Hall, 2000.		
Prerequisite	Completion of Math 141 with a grade of C or better $or$ qualification through placement.		
Course Content	This is a continal the major to Fundamental T Almost all topi Some of the s Chapter 7: • logar • inver Chapter 8: • subst • integ • parti Chapter 9: • l'Hôp • integ Chapter 10 • appr • nume Chapter 11 • conv • powe Chapter 12 • grap	nuation of Math 141 — Calculus I. A working understanding of opics from Math 141: limits, differentiation, integration, extrema, 'heorem of Calculus, etc. is essential for success in this course. cs from Chapters 7 – 12 will be discussed in this course. specific topics that will be covered include: Transcendental Functions "thms se functions Techniques of Integration titution pration by parts al fractions Indeterminate Forms and Improper Integrals pital's Rule pration when the Fundamental Theorem does not apply : Numerical Methods and Approximations oximation of functions erical integration : Sequences and Series ergence tests rr series : Polar Coordinates hing	

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Study Hints	Reading the material <b>in advance</b> of the lecture is strongly encouraged. Benefits of this preparation include obtaining a familiarity with the terminology and concepts that will be encountered (so you can distinguish major points from side issues), being able to formulate questions about the parts of the presentation that you do not understand, and having a chance to review the skills and techniques that will be needed to apply the new concepts. For additional assistance, do not forget about the Math Lab. The Math Lab provides free assistance for all 100-level mathematics courses. The main location is LC 101, with tutors also available in the ACE Offices located in the Towers and Bates House. For updated hours and locations, visit the Math Lab homepage at http://www.math.sc.edu/mathlab.html.
Grading	Your grade in this course will be based on your performance on quizzes, four (4) mid-term exams, and a final exam. The weights assigned to each of these components will be:
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	Course grades will be determined according to the following scale: A 90 -100 B 80 - 89 C 70 - 79 D 60 - 69 F 0 - 59
	The deadline to drop this course with a grade of W is Thursday, October 2, 2003.
Exams	The lowest of your four (4) mid-semester exam scores will not be used in determining your overall grade. Tentative dates for these exams are:Thursday, September 11Chapter 7Tuesday, October 7Chapter 8 (and part of 9)Thursday, October 30Chapters 9, 10 (and part of 11)Tuesday, November 25Chapter 11Make-up exams will be given only for documented reasons of illness, familyemergency or participation in a University sponsored event. Excuses such asoversleeping, forgetting the time or location of the exam, and lack of studyingare explicitly noted as unacceptable grounds for the administration of a make-upexam.A comprehensive final will be given at 9:00A.M. on Tuesday, December 9, 2003.
Homework	Problems will be assigned on a regular basis. You are expected to work all of these problems. We will go over some, but not all, of these problems in class. Your solutions will not be collected.
Quizzes	There will be a quiz each Monday of the semester. Each quiz will consist of one or two problems similar in nature to the homework problems. Your quiz grade will be computed by your ten (10) highest quiz scores. No make-up quizzes will be permitted.
Attendance	Attendance at every class meeting is important – and expected. Students missing more than 10% of the class meetings (4 days) can have their grade lowered.
Academic Hone	<b>sty</b> Cheating and plagiarism will not be tolerated. You may discuss homework problems with others, but do not copy work from another student or from a book. Violations of this policy will be dealt with according to University guidelines.